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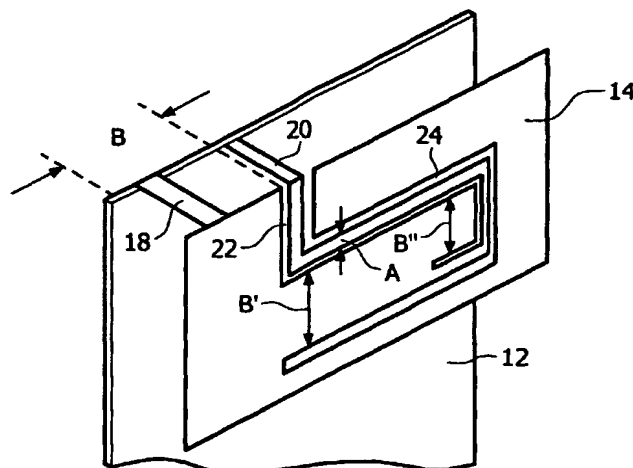
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(54) Title: ANTENNA ARRANGEMENT AND A MODULE AND A RADIO COMMUNICATIONS APPARATUS HAVING  
SUCH AN ARRANGEMENT



(57) Abstract: An antenna arrangement for a radio communications apparatus such as a mobile phone, comprises a substantially planar patch conductor (14) having a first feed connection point (18) for connection to radio circuitry and a second feed connection point (20) for connection to a ground plane, a first, differential slot (22) in the patch conductor between the first and second connection points and a second, dual band slot (24) located in the patch conductor outside the area between the first and second connection points, wherein the length of the first slot (22) is greater than a quarter wavelength, for example a half wavelength, and provides a third resonant frequency increasing the bandwidth of the antenna. The width (A) of the patch conductor between the first and the second slots is selected to obtain a low impedance transformation and thereby a low antenna resistance causing detuning the antenna. A user holding the phone increases the antenna resistance and insodoing tunes the antenna.



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